What is claimed is:

1. A method of forming a liquid crystal alignment film comprising the steps of:

dissolving a polymer material in a mixed solvent comprising a polar main solvent and a leveling agent and coating the solution on a substrate;

pre-baking the substrate to volatilize at least a part of the mixed solvent; and

baking the substrate at a higher temperature than the pre-baking to polymerize the polymer material and form a liquid crystal alignment film,

wherein a ratio of the leveling agent in the mixed solvent is a predetermined ratio by which the mixed solvent uniformly volatilizes on the substrate during the pre-baking step.

2. A method of forming a liquid crystal alignment film as set forth in claim 1, wherein the leveling agent comprises butyl β-hydroxyethyl ether.

3. A method of forming a liquid crystal alignment film as set forth in claim 2, wherein an upper limit of the predetermined ratio is about 15 wt%.

4. A method of forming a liquid crystal alignment film as set forth in claim 3, wherein a lower limit of the predetermined ratio is about 5 wt%.

5. A method of forming a liquid crystal alignment

film as set forth in claim 4, wherein the main solvent is γ-butyrolactone.

6. A method of forming a liquid crystal alignment film as set forth in claim 4, wherein the main solvent is N-methyl-α-pyrrolidone (NMP).

7. A method of forming a liquid crystal alignment film as set forth in claim 4, wherein the step of dissolving a polymer material in a mixed solvent and coating the solution on a substrate comprises a printing step.

8. A method of producing a liquid crystal display device comprising the steps of:

forming an electrode and a semiconductor element on a substrate;

dissolving a polymer material in a mixed solvent comprising a polar main solvent and a leveling agent and coating the solution on a substrate;

pre-baking the substrate to volatilize at least part of the mixed solvent;

baking the substrate at a higher temperature than the pre-baking to polymerize the polymer material and form a liquid crystal alignment film;

rubbing the liquid crystal alignment film; and

stacking a pair of substrates and filling a liquid crystal material between the substrates,

wherein a ratio of the leveling agent in the @mixed solvent is a predetermined ratio by which the mixed solvent uniformly volatilizes on the substrate during the pre-baking step.

9. A method of forming a liquid crystal alignment film as set forth in claim 8, wherein the leveling agent comprises butyl β-hydroxyethyl ether.

10. A method of forming a liquid crystal alignment film as set forth in claim 9, wherein an upper limit of the predetermined ratio is about 15 wt%.

11. A method of forming a liquid crystal alignment film as set forth in claim 10, wherein a lower limit of the predetermined ratio is about 5 wt%.

12. A method of forming a liquid crystal alignment film as set forth in claim 11, wherein the main solvent is γ-butyrolactone.

13. A method of forming a liquid crystal alignment film as set forth in claim 11, wherein the main solvent is N-methyl-α-pyrrolidone (NMP).

14. A method of forming a liquid crystal alignment film as set forth in claim 11, wherein the step of dissolving a polymer material in a mixed solvent and coating the solution on a substrate comprises a printing step.